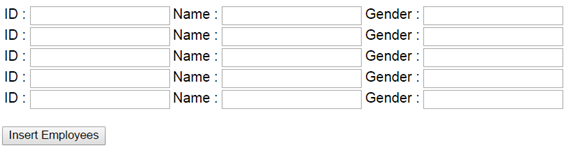
In this video we will discuss **how to send datatable as parameter to stored procedure**. This is continuation to [Part 99](http://csharp-video-tutorials.blogspot.com/2015/09/table-valued-parameters-in-sql-server.html). Please watch [Part 99](http://csharp-video-tutorials.blogspot.com/2015/09/table-valued-parameters-in-sql-server.html) from [SQL Server tutorial](https://www.youtube.com/playlist?list=PL08903FB7ACA1C2FB) before proceeding.   
  
   
  
In [Part 99](http://csharp-video-tutorials.blogspot.com/2015/09/table-valued-parameters-in-sql-server.html), we discussed creating a stored procedure that accepts a table as a parameter. In this video we will discuss **how to pass a datatable from a web application to the SQL Server stored procedure**.  
  
**Here is what we want to do.**  
**1.** Design a webform that looks as shown below. This form allows us to insert 5 employees at a time into the database table.   
   
  
**2. When "Insert Employees"** button is clicked, retrieve the from data into a datatabe and then pass the datatable as a parameter to the stored procedure.   
  
**3.** The stored procedure will then insert all the rows into the Employees table in the database.   
  
**Here are the steps to achieve this.**  
**Step 1 :**Create new asp.net web application project. Name it Demo.   
  
**Step 2 :**Include a connection string in the web.config file to your database.

<add name="DBCS"

      connectionString="server=.;database=SampleDB;integrated security=SSPI"/>

**Step 3 :**Copy and paste the following HTML in WebForm1.aspx

<asp:Button ID="btnFillDummyData" runat="server" Text="Fill Dummy Data"

    OnClick="btnFillDummyData\_Click" />

<br /><br />

<table>

    <tr>

        <td>

            ID : <asp:TextBox ID="txtId1" runat="server"></asp:TextBox>

        </td>

        <td>

            Name : <asp:TextBox ID="txtName1" runat="server"></asp:TextBox>

        </td>

        <td>

            Gender : <asp:TextBox ID="txtGender1" runat="server"></asp:TextBox>

        </td>

    </tr>

    <tr>

        <td>

            ID : <asp:TextBox ID="txtId2" runat="server"></asp:TextBox>

        </td>

        <td>

            Name : <asp:TextBox ID="txtName2" runat="server"></asp:TextBox>

        </td>

        <td>

            Gender : <asp:TextBox ID="txtGender2" runat="server"></asp:TextBox>

        </td>

    </tr>

    <tr>

        <td>

            ID : <asp:TextBox ID="txtId3" runat="server"></asp:TextBox>

        </td>

        <td>

            Name : <asp:TextBox ID="txtName3" runat="server"></asp:TextBox>

        </td>

        <td>

            Gender : <asp:TextBox ID="txtGender3" runat="server"></asp:TextBox>

        </td>

    </tr>

    <tr>

        <td>

            ID : <asp:TextBox ID="txtId4" runat="server"></asp:TextBox>

        </td>

        <td>

            Name : <asp:TextBox ID="txtName4" runat="server"></asp:TextBox>

        </td>

        <td>

            Gender : <asp:TextBox ID="txtGender4" runat="server"></asp:TextBox>

        </td>

    </tr>

    <tr>

        <td>

            ID : <asp:TextBox ID="txtId5" runat="server"></asp:TextBox>

        </td>

        <td>

            Name : <asp:TextBox ID="txtName5" runat="server"></asp:TextBox>

        </td>

        <td>

            Gender : <asp:TextBox ID="txtGender5" runat="server"></asp:TextBox>

        </td>

    </tr>

</table>

<br />

<asp:Button ID="btnInsert" runat="server" Text="Insert Employees"

    OnClick="btnInsert\_Click" />

**Step 4 :** Copy and paste the following code in the code-behind file

using System;

using System.Configuration;

using System.Data;

using System.Data.SqlClient;

namespace Demo

{

    public partial class WebForm1 : System.Web.UI.Page

    {

        protected void Page\_Load(object sender, EventArgs e)

        { }

        private DataTable GetEmployeeData()

        {

            DataTable dt = new DataTable();

            dt.Columns.Add("Id");

            dt.Columns.Add("Name");

            dt.Columns.Add("Gender");

            dt.Rows.Add(txtId1.Text, txtName1.Text, txtGender1.Text);

            dt.Rows.Add(txtId2.Text, txtName2.Text, txtGender2.Text);

            dt.Rows.Add(txtId3.Text, txtName3.Text, txtGender3.Text);

            dt.Rows.Add(txtId4.Text, txtName4.Text, txtGender4.Text);

            dt.Rows.Add(txtId5.Text, txtName5.Text, txtGender5.Text);

            return dt;

        }

        protected void btnInsert\_Click(object sender, EventArgs e)

        {

            string cs = ConfigurationManager.ConnectionStrings["DBCS"].ConnectionString;

            using (SqlConnection con = new SqlConnection(cs))

            {

                SqlCommand cmd = new SqlCommand("spInsertEmployees", con);

                cmd.CommandType = CommandType.StoredProcedure;

                SqlParameter paramTVP = new SqlParameter()

                {

                    ParameterName = "@EmpTableType",

                    Value = GetEmployeeData()

                };

                cmd.Parameters.Add(paramTVP);

                con.Open();

                cmd.ExecuteNonQuery();

                con.Close();

            }

        }

        protected void btnFillDummyData\_Click(object sender, EventArgs e)

        {

            txtId1.Text = "1";

            txtId2.Text = "2";

            txtId3.Text = "3";

            txtId4.Text = "4";

            txtId5.Text = "5";

            txtName1.Text = "John";

            txtName2.Text = "Mike";

            txtName3.Text = "Sara";

            txtName4.Text = "Pam";

            txtName5.Text = "Todd";

            txtGender1.Text = "Male";

            txtGender2.Text = "Male";

            txtGender3.Text = "Female";

            txtGender4.Text = "Female";

            txtGender5.Text = "Male";

        }

    }

}